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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/725,419	EGAWA ET AL.
	Examiner	Art Unit	
	MARCUS T. RILEY	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>26 March 2008</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-36</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-36</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>03 December 2003</u> is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

        1.☒ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

Response to Amendment

1.   This office action is responsive to applicant's remarks received on March 26, 2008.
Claims 1-36 remain pending.

Response to Arguments

2.   Applicant's arguments with respect to amended claim 1, 15, 29 & 36 filed on March 26,
2008 have been fully considered but they are not persuasive.

A: Applicant's Remarks

      The Office Action (1) rejects claims 1-10, 15-24, 29-34 and 36 under 35 U.S.C. §102(b)
over U.S. Patent No. 6,678,064 to Bruce; and (2) rejects claims 11-14, 25-28 and 35 under 35
U.S.C. §103(a) over Bruce in view of U.S. Patent No. 6,288,790 to Yellepeddy. Applicants
respectfully traverse the rejections.

      By this Amendment, independent claims 1, 15, 29 and 36 are amended to recited that the
printing data is "data to be printed in accordance with a print request" to more clearly define
that the printing data is not a print request.

      Regarding independent claims 1, 15, 29 and 36, Bruce fails to disclose or suggest "a
controller that: (1) enables editing of the printing data previously stored in the memory of the
image forming device" (claim 1); "editing means for enabling editing of the printing data
previously stored in the storage means of the image forming device" (claim 15); "allowing
editing of the printing data previously stored in the image forming device" (claim 29); and "an

editing part that sets the printing data stored in the memory to an editing-allowable state according to a request from the host device" (claim 36).

Bruce discloses a printer document viewer. The system of Bruce includes a printing device 130 (Fig. 1) having a touch screen 320 (Fig. 3; col. 9, lines 25-26) that, for example, provides a document list 350 of the pending print requests (col. 9, lines 34-37).

The Office Action cites to touch screen 320 (Fig. 3) having an interactive menu that a user can use to interact with the printing device 130 as disclosing the features quoted above. However, as quoted by the Office Action, Bruce states "printing device 130 includes a display with a touch screen 320 for providing a user with an interactive menu to view, control, and manipulate print requests stored in the memory queue, at step 415" (col. 9, lines 25-28).

In relation to Fig. 3, Bruce discloses that GUI buttons 340-353 as well as scroll bar 328 manipulate print requests in document list 350 (col. 9, line 25 to col. 10, line 38). The Examiners argued during the interview that, at Fig. 4, step 435, the user can view a file associated with a print request. However, as explained at the personal interview, while Bruce discloses that a user can view the content of a file associated with a print request, and can view different sections of the file, Bruce does not disclose or suggest that a user can edit the contents of the file, i.e., the print data. Bruce merely indicates that the order in which documents are to be printed can be manipulated and that requests to print specific documents can be deleted, etc.

In contrast, the independent claims recite that it is the "printing data previously stored in the memory of the image forming device" (as recited in claim 1) that is edited. By this Amendment, the independent claims are amended to even more clearly recite that the printing data, is what is edited. Because one of ordinary skill in the art would readily understand that a

print request is not printing data and further is not printing data that provides image data that is used to produce printed output, one skilled in the art would understand that Bruce fails to disclose all features of the independent claims. Bruce fails to disclose an image forming device having the claimed features or performing the claimed steps.

Further, while Bruce discloses that a user can manipulate print requests, even ignoring the distinction between print requests and print data in order to apply this disclosure to the claimed language, Bruce fails to disclose that the user can edit a print request. As explained at the personal interview, "manipulate" does not correspond to "edit". The American Heritage College Dictionary, fourth edition, defines "manipulate" as "To arrange, operate, or control by the hands or by mechanical means". The term "edit" is defined as "To prepare for publication or presentation, as by correcting, revising, or adapting", which agrees with the use of the term "edit" in Applicants' specification. Please see Exhibit A. Because "manipulate" does not encompass the term "edit" as used in the claims, one of ordinary skill would not have understood Bruce's use of the term "manipulate" to mean editing.

Yellapeddy, applied in relation to claims 11-14, 25-28 and 35, does not cure the deficiencies of Bruce. Yellapeddy discloses a system which provides print support when the connection to a remote printer is lost. Yellapeddy discloses a data processing system 102 such as a desktop or mobile computing device (Fig. 1; col. 2, lines 57-62) connected to a print server/printer 108 over a network 106 (Fig. 1). When the connection to the remote print server/printer 108 is lost or the user cannot access the print server/printer 108, a mobile print manager 202 creates a transient print queue 206 that stores the desired print requests (col. 4, lines 10-18). When access to the print server/printer 108 is achieved, the transient print queue

can be replayed and the print requests submitted to the print server/printer 108 (col. 4, lines 18-29).

Yellepeddy fails to cure the deficiencies of Bruce because, while Yellepeddy discloses the ability to edit (ASCII only) versions of a print job (col. 7, lines 8-11), this ability exists only on the data processing system 102, not on the image forming device (print server/printer 108) as claimed.

For the foregoing reasons, Applicants request withdrawal of the rejections.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance.

A: Examiner's Response

Examiner (1) rejects claims 1-10, 15-24, 29-34 and 36 under 35 U.S.C. §102(b) over U.S. Patent No. 6,678,064 to Bruce; and (2) rejects claims 11-14, 25-28 and 35 under 35 U.S.C. §103(a) over Bruce in view of U.S. Patent No. 6,288,790 to Yellepeddy.

Applicant amended independent claims 1, 15, 29 and 36 are to recited that the printing data is "data to be printed in accordance with a print request" to more clearly define that the printing data is not a print request.

Examiner understands that the printing data is *"data to be printed in accordance with a print request"* and that the printing data is not a print request. Examiner cites Bruce '064 wherein Bruce '064 discloses a memory that stores printing data to be printed in accordance with a print request (*"Printing device 130 queues the submitted print requests in memory, processes data associated with the requests, and prints out the data in certain order."* column 4, lines 34-36). Here, Bruce '064 processes data that is associated with the print request and prints out that

data. One skilled in the art would understand that if the print request is stored in the memory, the

data associated with the print request is also in the memory. Because the data is associated with

the print request, it is not the actual print request and the data is printed in accordance with the

print request. Thus, Bruce '064 discloses a memory that stores printing data to be printed in

accordance with a print request.

Regarding independent claims 1, 15, 29 and 36, Bruce does not fail to disclose or suggest

"a controller that: (1) enables editing of the printing data previously stored in the memory of the

image forming device" (*"Referring to FIG. 3, printing device 130 includes a display with a*

touch screen 320 for providing a user with an interactive menu to view, control, and manipulate

print requests stored in the memory queue, at step 415." Bruce '064 at column 9, lines 25-28);

"editing means for enabling editing of the printing data previously stored in the storage means of

the image forming device" (*"Referring to FIG. 3, printing device 130 includes a display with a*

touch screen 320 for providing a user with an interactive menu to view, control, and manipulate

print requests stored in the memory queue, at step 415." Bruce '064 at column 9, lines 25-28);

"allowing editing of the printing data previously stored in the image forming device" (*"In one*

embodiment, a printing system for processing one or more print requests includes: a print queue

for storing data associated with one or more print requests, a display screen for displaying the

content of the print queue; control interface for controlling the processing order of print requests

in the queue; and executable code stored in a memory, wherein execution of the code by a

processor causes the processor to process the print requests stored in the queue in response to

user interaction with the control interface." Bruce '064 at column 2, lines 13-22). See also

(*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for*

providing a user with an interactive menu to view, control, and manipulate print requests stored

in the memory queue, at step 415. As shown in FIG. 3, a user may interact with printing device

130's control buttons 330 or menu bar 322 or other interactive features displayed on touch

screen 320 to view and control the printing order of the documents associated with the print

requests queued in the memory queue of printer 130." Bruce '064 at column 9, lines 25-33); and

"an editing part that sets the printing data stored in the memory to an editing-allowable state

according to a request from the host device" (*"In one embodiment, a printing system for*

processing one or more print requests includes: a print queue for storing data associated with

one or more print requests, a display screen for displaying the content of the print queue; control

interface for controlling the processing order of print requests in the queue; and executable code

stored in a memory, wherein execution of the code by a processor causes the processor to

process the print requests stored in the queue in response to user interaction with the control

interface." Bruce '064 at column 2, lines 13-22). See also (*"Referring to FIG. 3, printing device*

130 includes a display with a touch screen 320 for providing a user with an interactive menu to

view, control, and manipulate print requests stored in the memory queue, at step 415. As shown

in FIG. 3, a user may interact with printing device 130's control buttons 330 or menu bar 322 or

other interactive features displayed on touch screen 320 to view and control the printing order of

the documents associated with the print requests queued in the memory queue of printer 130."

Bruce '064 at column 9, lines 25-33).

Further, while Bruce discloses that a user can manipulate print requests, Applicant argues

that the term "manipulate" does not coincide with the word "edit". The Encarta Dictionary,

North American English Version, defines in one form that "manipulate" means to change. A

synonym for the word "edit" is "change". Therefore, one of ordinary skill would have understood Bruce's use of the term "manipulate" to mean editing.

Yellapeddy, applied in relation to claims 11-14, 25-28 and 35, does cure the deficiencies of Bruce. Yellepeddy also discloses a system where a user may edit or modify the contents of a print job while in the printer queue (*"The user may also change the state of a print job within the transient printer queue to the held state to suspend or bypass replay for that print job, or may release a held print job to place it in the waiting state. The user may additionally edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a print job within the transient printer queue to make a duplicate job, or invoke a settings notebook for a selected print job, allowing the user to modify its characteristics."* Yellepeddy at column 7, lines 5-13).

For the foregoing reasons, Applicant's arguments with respect to amended claim 1, 15, 29 & 36 filed on March 26, 2008 have been fully considered but they are not persuasive. Thus, Examiners rejections are not withdrawn.

Accordingly, it is respectfully submitted that this application is not in condition for allowance.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4.   **Claims 1-10, 15-24, 29-34 & 36 are** rejected under 35 U.S.C. 102(b) as being anticipated by Bruce (US 6,678,064 hereinafter, Bruce'064).

Regarding claim 1; Bruce '064 discloses an image forming device comprising (*"The present invention relates generally to printing methods and systems and, more particularly, to printing services in a communications network."* column 1, lines 7-10): discloses a memory that stores printing data to be printed in accordance with a print request (*"Printing device 130 queues the submitted print requests in memory, processes data associated with the requests, and prints out the data in certain order."* column 4, lines 34-36); See also (*"The print queue is a logical storage area associated with space allocated in memory for storing print information."* column 5, lines 6-8). Furthermore see (*"...printing device 130 includes a processor and memory means to directly receive, store, and process print requests as transmitted by client computer 120; while in the latter scenario, server computer 140 performs the initial tasks of receiving, storing, and processing print requests, and then forwards data in printable format to printing device 130 for*

printing." column 4, lines 59-65);   a controller that: (1) enables editing of the printing data

previously stored in the memory of the image forming device (*"Referring to FIG. 3, printing*

device 130 includes a display with a touch screen 320 for providing a user with an interactive

menu to view, control, and manipulate print requests stored in the memory queue, at step 415."

column 9, lines 25-28); and performs data processing for providing image data from the printing

data stored in the memory (*"Printing device 130 queues the submitted print requests in memory,*

processes data associated with the requests, and prints out the data in certain order." column 4,

lines 34-36); and a printing mechanism that provides printed output of the image data output by

the controller (*"For example, in one embodiment, the scroll bar 328 is provided to allow a user*

to scroll through one or more sections of the file associated with the print request. At step 470,

the user may interact with menu bar 322 or other interactive features displayed on touch screen

320, for example, GUI buttons 340 and 348 to print one or more pages of the selected print

request as displayed on display area 324. User interaction with control buttons 330 or GUI

buttons provided on touch screen 320 may allow a user to control the operation of printing

device 130 in other manners" column 10, lines 4-13).

Regarding claim 2; Bruce '064 discloses wherein the controller starts the data

processing of the printing data after an editing-allowable state of the printing data has been

completed (*"In one embodiment, a printing system for processing one or more print requests*

includes: a print queue for storing data associated with one or more print requests, a display

screen for displaying the content of the print queue; control interface for controlling the

processing order of print requests in the queue; and executable code stored in a memory,

wherein execution of the code by a processor causes the processor to process the print requests

stored in the queue in response to user interaction with the control interface."   column 2, lines

13-22). See also (*"Referring to FIG. 3, printing device 130 includes a display with a touch*

screen 320 for providing a user with an interactive menu to view, control, and manipulate print

requests stored in the memory queue, at step 415. As shown in FIG. 3, a user may interact with

printing device 130's control buttons 330 or menu bar 322 or other interactive features displayed

on touch screen 320 to view and control the printing order of the documents associated with the

print requests queued in the memory queue of printer 130."   column 9, lines 25-33).

Regarding claim 3; Bruce '064 discloses wherein the controller starts processing of

subsequent printing data when the printing data next in order is in the editing-allowable state

(*"In one embodiment, a printing system for processing one or more print requests includes: a*

print queue for storing data associated with one or more print requests, a display screen for

displaying the content of the print queue; control interface for controlling the processing order

of print requests in the queue; and executable code stored in a memory, wherein execution of the

code by a processor causes the processor to process the print requests stored in the queue in

response to user interaction with the control interface."   column 2, lines 13-22). See also

(*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for*

providing a user with an interactive menu to view, control, and manipulate print requests stored

in the memory queue, at step 415. As shown in FIG. 3, a user may interact with printing device

130's control buttons 330 or menu bar 322 or other interactive features displayed on touch

screen 320 to view and control the printing order of the documents associated with the print

requests queued in the memory queue of printer 130." column 9, lines 25-33).

Regarding claim 4; Bruce '064 discloses wherein the processing of the printing data in

the editing-allowable state is started when the editing of the printing data is completed and the

processing of the subsequent printing data is completed (*"In one embodiment, a printing system*

for processing one or more print requests includes: a print queue for storing data associated

with one or more print requests, a display screen for displaying the content of the print queue;

control interface for controlling the processing order of print requests in the queue; and

executable code stored in a memory, wherein execution of the code by a processor causes the

processor to process the print requests stored in the queue in response to user interaction with

the control interface." column 2, lines 13-22). See also (*"Referring to FIG. 3, printing device*

130 includes a display with a touch screen 320 for providing a user with an interactive menu to

view, control, and manipulate print requests stored in the memory queue, at step 415. As shown

in FIG. 3, a user may interact with printing device 130's control buttons 330 or menu bar 322 or

other interactive features displayed on touch screen 320 to view and control the printing order of

the documents associated with the print requests queued in the memory queue of printer 130."

column 9, lines 25-33).

Regarding claim 5; Bruce '064 discloses wherein the printing data is stored in the

memory after the printed output is provided (*"However, if server computer 140 is not included in*

the system to handle the task of processing the submitted print requests, then print requests will

be processed by print manager software 131. The processed requests are stored in a memory

queue, at step 410, in the order received. The memory queue can be a logical data structure

allocated in any type of data storage medium and may be included in printing device 130, server

computer 140, or any other device directly or indirectly attached to network 110 or printing

device 130." column 9, lines 15-24).

      Regarding claim 6; Bruce '064 discloses wherein the controller also transmits the

printing data stored in the memory to the information processor (*"Printing device 130 can be*

any kind of printer and may include an adapter card for connecting to a communication network

in addition to hardware and software necessary for servicing print requests. Alternatively,

printing device 130 may serve as a stand alone printer connected to a print server such as server

computer 140. In the former scenario, printing device 130 includes a processor and memory

means to directly receive, store, and process print requests as transmitted by client computer

120; while in the latter scenario, server computer 140 performs the initial tasks of receiving,

storing, and processing print requests, and then forwards data in printable format to printing

device 130 for printing." column 4, lines 54-65).

      Regarding claim 7; Bruce '064 discloses wherein the controller starts the data

processing after the printing data is entirely received by the image forming device (*"Printing*

device 130 can be any kind of printer and may include an adapter card for connecting to a

communication network in addition to hardware and software necessary for servicing print

requests. Alternatively, printing device 130 may serve as a stand alone printer connected to a

print server such as server computer 140. In the former scenario, printing device 130 includes a

processor and memory means to directly receive, store, and process print requests as transmitted

by client computer 120; while in the latter scenario, server computer 140 performs the initial

tasks of receiving, storing, and processing print requests, and then forwards data in printable

format to printing device 130 for printing." column 4, lines 54-65).

Regarding claim 8; Bruce '064 discloses wherein the controller starts the data

processing after the printing data is entirely received by the image forming device (*"Printing*

device 130 can be any kind of printer and may include an adapter card for connecting to a

communication network in addition to hardware and software necessary for servicing print

requests. Alternatively, printing device 130 may serve as a stand alone printer connected to a

print server such as server computer 140. In the former scenario, printing device 130 includes a

processor and memory means to directly receive, store, and process print requests as transmitted

by client computer 120; while in the latter scenario, server computer 140 performs the initial

tasks of receiving, storing, and processing print requests, and then forwards data in printable

format to printing device 130 for printing." column 4, lines 54-65).

Regarding claim 9; Bruce '064 discloses wherein the controller enables editing of the

printing data if the printing data satisfies a predetermined condition (*"Referring to FIG. 3,*

printing device 130 includes a display with a touch screen 320 for providing a user with an

interactive menu to view, control, and manipulate print requests stored in the memory queue, at

step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330

or menu bar 322 or other interactive features displayed on touch screen 320 to view and control

the printing order of the documents associated with the print requests queued in the memory

queue of printer 130." column 9, lines 25-33). It is understood that a predetermined condition is

more that one print job. Thus, the *"printing order"* is *"manipulated"* accordingly.

      Regarding claim 10; Bruce '064 discloses wherein the controller enables editing of the

printing data if the printing data satisfies a predetermined condition (*"Referring to FIG. 3,*

printing device 130 includes a display with a touch screen 320 for providing a user with an

interactive menu to view, control, and manipulate print requests stored in the memory queue, at

step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330

or menu bar 322 or other interactive features displayed on touch screen 320 to view and control

the printing order of the documents associated with the print requests queued in the memory

queue of printer 130." column 9, lines 25-33). It is understood that a *"predetermined condition"*

is more than one print job. Thus, the *"printing order"* is *"manipulated"* accordingly.

      Regarding claim 15; Bruce '064 discloses an image forming device comprising: a

storage means for storing printing data to be printed in accordance with a print request

(*"Printing device 130 queues the submitted print requests in memory, processes data associated*

with the requests, and prints out the data in certain order." column 4, lines 34-36). See also

(*"The print queue is a logical storage area associated with space allocated in memory for*

storing print information." column 5, lines 6-8). Furthermore see (*"...printing device 130*

includes a processor and memory means to directly receive, store, and process print requests as

transmitted by client computer 120; while in the latter scenario, server computer 140 performs

the initial tasks of receiving, storing, and processing print requests, and then forwards data in

printable format to printing device 130 for printing." column 4, lines 59-65); editing means for

enabling editing of the printing data previously stored in the storage means of the image forming

device (*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for*

providing a user with an interactive menu to view, control, and manipulate print requests stored

in the memory queue, at step 415."   column 9, lines 25-28); data processing means for

performing data processing to provide image data from the printing data stored in the storage

means (*"Printing device 130 queues the submitted print requests in memory, processes data*

associated with the requests, and prints out the data in certain order." column 4, lines 34-36);

and printing means for providing printed output of the image data output by the data processing

means (*"For example, in one embodiment, the scroll bar 328 is provided to allow a user to*

scroll through one or more sections of the file associated with the print request. At step 470, the

user may interact with menu bar 322 or other interactive features displayed on touch screen 320,

for example, GUI buttons 340 and 348 to print one or more pages of the selected print request as

displayed on display area 324. User interaction with control buttons 330 or GUI buttons

provided on touch screen 320 may allow a user to control the operation of printing device 130 in

other manners" column 10, lines 4-13).

Regarding claim 16; Bruce '064 discloses wherein the data processing means starts the

data processing of the printing data after an editing-allowable state of the printing data has been

completed (*"In one embodiment, a printing system for processing one or more print requests*

includes: a print queue for storing data associated with one or more print requests, a display

screen for displaying the content of the print queue; control interface for controlling the

processing order of print requests in the queue; and executable code stored in a memory,

wherein execution of the code by a processor causes the processor to process the print requests

stored in the queue in response to user interaction with the control interface." column 2, lines

13-22). See also (*"Referring to FIG. 3, printing device 130 includes a display with a touch*

screen 320 for providing a user with an interactive menu to view, control, and manipulate print

requests stored in the memory queue, at step 415. As shown in FIG. 3, a user may interact with

printing device 130's control buttons 330 or menu bar 322 or other interactive features displayed

on touch screen 320 to view and control the printing order of the documents associated with the

print requests queued in the memory queue of printer 130." column 9, lines 25-33).

Regarding claim 17; Bruce '064 discloses wherein the data processing means starts

processing of subsequent printing data when the printing data next in order is in the editing-

allowable state (*"In one embodiment, a printing system for processing one or more print*

requests includes: a print queue for storing data associated with one or more print requests, a

display screen for displaying the content of the print queue; control interface for controlling the

processing order of print requests in the queue; and executable code stored in a memory,

wherein execution of the code by a processor causes the processor to process the print requests

stored in the queue in response to user interaction with the control interface." column 2, lines

13-22). See also (*"Referring to FIG. 3, printing device 130 includes a display with a touch*

screen 320 for providing a user with an interactive menu to view, control, and manipulate print

requests stored in the memory queue, at step 415. As shown in FIG. 3, a user may interact with

printing device 130's control buttons 330 or menu bar 322 or other interactive features displayed

on touch screen 320 to view and control the printing order of the documents associated with the

print requests queued in the memory queue of printer 130." column 9, lines 25-33).

      Regarding claim 18; Bruce '064 discloses wherein the processing of the printing data in

the editing-allowable state is started when the editing of the printing data is completed and the

processing of the subsequent printing data is completed (*"In one embodiment, a printing system*

for processing one or more print requests includes: a print queue for storing data associated

with one or more print requests, a display screen for displaying the content of the print queue;

control interface for controlling the processing order of print requests in the queue; and

executable code stored in a memory, wherein execution of the code by a processor causes the

processor to process the print requests stored in the queue in response to user interaction with

the control interface." column 2, lines 13-22). See also (*"Referring to FIG. 3, printing device*

130 includes a display with a touch screen 320 for providing a user with an interactive menu to

view, control, and manipulate print requests stored in the memory queue, at step 415. As shown

in FIG. 3, a user may interact with printing device 130's control buttons 330 or menu bar 322 or

other interactive features displayed on touch screen 320 to view and control the printing order of

the documents associated with the print requests queued in the memory queue of printer 130."

column 9, lines 25-33).

Regarding claim 19; Bruce '064 discloses wherein the printing data is stored in the storage means after the printed output is provided (*"However, if server computer 140 is not included in the system to handle the task of processing the submitted print requests, then print requests will be processed by print manager software 131. The processed requests are stored in a memory queue, at step 410, in the order received. The memory queue can be a logical data structure allocated in any type of data storage medium and may be included in printing device 130, server computer 140, or any other device directly or indirectly attached to network 110 or printing device 130."* column 9, lines 15-24).

Regarding claim 20; Bruce '064 discloses an image forming device comprising transmission means for transmitting the printing data stored in the storage means to the information processor (*"Printing device 130 can be any kind of printer and may include an adapter card for connecting to a communication network in addition to hardware and software necessary for servicing print requests. Alternatively, printing device 130 may serve as a stand alone printer connected to a print server such as server computer 140. In the former scenario, printing device 130 includes a processor and memory means to directly receive, store, and process print requests as transmitted by client computer 120; while in the latter scenario, server computer 140 performs the initial tasks of receiving, storing, and processing print requests, and then forwards data in printable format to printing device 130 for printing."* column 4, lines 54-65).

Regarding claim 21; Bruce '064 discloses wherein the data processing means starts the data processing after the printing data is entirely received by the image forming device

(*"Printing device 130 can be any kind of printer and may include an adapter card for connecting to a communication network in addition to hardware and software necessary for servicing print requests. Alternatively, printing device 130 may serve as a stand alone printer connected to a print server such as server computer 140. In the former scenario, printing device 130 includes a processor and memory means to directly receive, store, and process print requests as transmitted by client computer 120; while in the latter scenario, server computer 140 performs the initial tasks of receiving, storing, and processing print requests, and then forwards data in printable format to printing device 130 for printing."* column 4, lines 54-65).

      Regarding claim 22; Bruce '064 discloses wherein the data processing means starts the data processing after the printing data is entirely received by the image forming device (*"Printing device 130 can be any kind of printer and may include an adapter card for connecting to a communication network in addition to hardware and software necessary for servicing print requests. Alternatively, printing device 130 may serve as a stand alone printer connected to a print server such as server computer 140. In the former scenario, printing device 130 includes a processor and memory means to directly receive, store, and process print requests as transmitted by client computer 120; while in the latter scenario, server computer 140 performs the initial tasks of receiving, storing, and processing print requests, and then forwards data in printable format to printing device 130 for printing."* column 4, lines 54-65).

      Regarding claim 23; Bruce '064 discloses wherein the editing means enables editing of the printing data if the printing data satisfies a predetermined condition (*"Referring to FIG. 3,*

printing device 130 includes a display with a touch screen 320 for providing a user with an

interactive menu to view, control, and manipulate print requests stored in the memory queue, at

step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330

or menu bar 322 or other interactive features displayed on touch screen 320 to view and control

the printing order of the documents associated with the print requests queued in the memory

queue of printer 130." column 9, lines 25-33). It is understood that a predetermined condition is

more that one print job. Thus, the *"printing order"* is *"manipulated"* accordingly.

      Regarding claim 24; Bruce '064 discloses wherein the editing means enables editing of

the printing data if the printing data satisfies a predetermined condition (*"Referring to FIG. 3,*

printing device 130 includes a display with a touch screen 320 for providing a user with an

interactive menu to view, control, and manipulate print requests stored in the memory queue, at

step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330

or menu bar 322 or other interactive features displayed on touch screen 320 to view and control

the printing order of the documents associated with the print requests queued in the memory

queue of printer 130." column 9, lines 25-33). It is understood that a predetermined condition is

more that one print job. Thus, the *"printing order"* is *"manipulated"* accordingly.

      Regarding claim 29; Bruce '064 discloses An image forming method comprising the

steps of: storing, in an image forming device, printing data to be printed in accordance with a

print request transmitted from an information processor (*"Referring to FIG. 3, printing device*

130 includes a display with a touch screen 320 for providing a user with an interactive menu to

view, control, and manipulate print requests stored in the memory queue, at step 415." column

9, lines 25-28); See also (*"The print queue is a logical storage area associated with space*

allocated in memory for storing print information." column 5, lines 6-8). Furthermore see

(*"...printing device 130 includes a processor and memory means to directly receive, store, and*

process print requests as transmitted by client computer 120; while in the latter scenario, server

computer 140 performs the initial tasks of receiving, storing, and processing print requests, and

then forwards data in printable format to printing device 130 for printing." column 4, lines 59-

65); allowing editing of the printing data previously stored in the image forming device (*"In one*

embodiment, a printing system for processing one or more print requests includes: a print queue

for storing data associated with one or more print requests, a display screen for displaying the

content of the print queue; control interface for controlling the processing order of print requests

in the queue; and executable code stored in a memory, wherein execution of the code by a

processor causes the processor to process the print requests stored in the queue in response to

user interaction with the control interface." column 2, lines 13-22). See also (*"Referring to*

FIG. 3, printing device 130 includes a display with a touch screen 320 for providing a user with

an interactive menu to view, control, and manipulate print requests stored in the memory queue,

at step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons

330 or menu bar 322 or other interactive features displayed on touch screen 320 to view and

control the printing order of the documents associated with the print requests queued in the

memory queue of printer 130." column 9, lines 25-33); and providing printed output of the

edited printing data by the image forming device after the editing is completed (*"For example, in*

one embodiment, the scroll bar 328 is provided to allow a user to scroll through one or more

sections of the file associated with the print request. At step 470, the user may interact with menu

bar 322 or other interactive features displayed on touch screen 320, for example, GUI buttons

340 and 348 to print one or more pages of the selected print request as displayed on display area

324. User interaction with control buttons 330 or GUI buttons provided on touch screen 320

may allow a user to control the operation of printing device 130 in other manners" column 10,

lines 4-13).

      Regarding claim 30; Bruce '064 discloses wherein subsequent printing data is output as

the printed output when the editing of the printing data next in order is not completed (*"In one*

embodiment, a printing system for processing one or more print requests includes: a print queue

for storing data associated with one or more print requests, a display screen for displaying the

content of the print queue; control interface for controlling the processing order of print requests

in the queue; and executable code stored in a memory, wherein execution of the code by a

processor causes the processor to process the print requests stored in the queue in response to

user interaction with the control interface." column 2, lines 13-22). See also (*"Referring to*

FIG. 3, printing device 130 includes a display with a touch screen 320 for providing a user with

an interactive menu to view, control, and manipulate print requests stored in the memory queue,

at step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons

330 or menu bar 322 or other interactive features displayed on touch screen 320 to view and

control the printing order of the documents associated with the print requests queued in the

memory queue of printer 130." column 9, lines 25-33).

Regarding claim 31; Bruce '064 discloses wherein the printing data whose editing has

been completed is output as the printed output when processing of the subsequent printing data is

completed (*"In one embodiment, a printing system for processing one or more print requests*

includes: a print queue for storing data associated with one or more print requests, a display

screen for displaying the content of the print queue; control interface for controlling the

processing order of print requests in the queue; and executable code stored in a memory,

wherein execution of the code by a processor causes the processor to process the print requests

stored in the queue in response to user interaction with the control interface." column 2, lines

13-22). See also (*"Referring to FIG. 3, printing device 130 includes a display with a touch*

screen 320 for providing a user with an interactive menu to view, control, and manipulate print

requests stored in the memory queue, at step 415. As shown in FIG. 3, a user may interact with

printing device 130's control buttons 330 or menu bar 322 or other interactive features displayed

on touch screen 320 to view and control the printing order of the documents associated with the

print requests queued in the memory queue of printer 130." column 9, lines 25-33).

Regarding claim 32; Bruce '064 discloses wherein the printing data is stored in the

image forming device after the printing data is output as the printed output (*"However, if server*

computer 140 is not included in the system to handle the task of processing the submitted print

requests, then print requests will be processed by print manager software 131. The processed

requests are stored in a memory queue, at step 410, in the order received. The memory queue

can be a logical data structure allocated in any type of data storage medium and may be

included in printing device 130, server computer 140, or any other device directly or indirectly

attached to network 110 or printing device 130." column 9, lines 15-24).

Regarding claim 33; Bruce '064 discloses wherein the stored printing data is transmitted

to the information processor (*"Printing device 130 can be any kind of printer and may include*

an adapter card for connecting to a communication network in addition to hardware and

software necessary for servicing print requests. Alternatively, printing device 130 may serve as a

stand alone printer connected to a print server such as server computer 140. In the former

scenario, printing device 130 includes a processor and memory means to directly receive, store,

and process print requests as transmitted by client computer 120; while in the latter scenario,

server computer 140 performs the initial tasks of receiving, storing, and processing print

requests, and then forwards data in printable format to printing device 130 for printing."

column 4, lines 54-65).

Regarding claim 34; Bruce '064 discloses wherein the editing of the printing data is

allowed when the printing data satisfies a predetermined condition (*"Referring to FIG. 3,*

printing device 130 includes a display with a touch screen 320 for providing a user with an

interactive menu to view, control, and manipulate print requests stored in the memory queue, at

step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330

or menu bar 322 or other interactive features displayed on touch screen 320 to view and control

the printing order of the documents associated with the print requests queued in the memory

queue of printer 130. " column 9, lines 25-33). It is understood that a predetermined condition is more that one print job. Thus, the *"printing order"* is *"manipulated"* accordingly.

   Regarding claim 36; Bruce '064 discloses a printing device comprising: a receiving part that receives printing data from a host device, to be printed in accordance with a print request (*"However, if server computer 140 is not included in the system to handle the task of processing the submitted print requests, then print requests will be processed by print manager software 131. The processed requests are stored in a memory queue, at step 410, in the order received. The memory queue can be a logical data structure allocated in any type of data storage medium and may be included in printing device 130, server computer 140, or any other device directly or indirectly attached to network 110 or printing device 130."* column 9, lines 15-24); See also (*"The print queue is a logical storage area associated with space allocated in memory for storing print information."* column 5, lines 6-8). Furthermore see (*"...printing device 130 includes a processor and memory means to directly receive, store, and process print requests as transmitted by client computer 120; while in the latter scenario, server computer 140 performs the initial tasks of receiving, storing, and processing print requests, and then forwards data in printable format to printing device 130 for printing."* column 4, lines 59-65);a memory that stores the printing data received by the receiving part (*"However, if server computer 140 is not included in the system to handle the task of processing the submitted print requests, then print requests will be processed by print manager software 131. The processed requests are stored in a memory queue, at step 410, in the order received. The memory queue can be a logical data structure allocated in any type of data storage medium and may be included in printing device*

130, server computer 140, or any other device directly or indirectly attached to network 110 or

printing device 130." column 9, lines 15-24); a printing controller that controls the printing data

stored in the memory so as to print the printing data according to a predetermined sequence

(*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for*

providing a user with an interactive menu to view, control, and manipulate print requests stored

in the memory queue, at step 415. As shown in FIG. 3, a user may interact with printing device

130's control buttons 330 or menu bar 322 or other interactive features displayed on touch

screen 320 to view and control the printing order of the documents associated with the print

requests queued in the memory queue of printer 130." column 9, lines 25-33): {It is understood

that a predetermined condition is more that one print job. Thus, the *"printing order"* is

"manipulated" accordingly}; and an editing part that sets the printing data stored in the memory

to an editing-allowable state according to a request from the host device (*"In one embodiment, a*

printing system for processing one or more print requests includes: a print queue for storing

data associated with one or more print requests, a display screen for displaying the content of

the print queue; control interface for controlling the processing order of print requests in the

queue; and executable code stored in a memory, wherein execution of the code by a processor

causes the processor to process the print requests stored in the queue in response to user

interaction with the control interface." column 2, lines 13-22). See also (*"Referring to FIG. 3,*

printing device 130 includes a display with a touch screen 320 for providing a user with an

interactive menu to view, control, and manipulate print requests stored in the memory queue, at

step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330

or menu bar 322 or other interactive features displayed on touch screen 320 to view and control

the printing order of the documents associated with the print requests queued in the memory queue of printer 130." column 9, lines 25-33); wherein the printing controller temporarily stops processing of the printing data depending on an editing request for the printing data from the host device (*"In one embodiment, a printing system for processing one or more print requests includes: a print queue for storing data associated with one or more print requests, a display screen for displaying the content of the print queue; control interface for controlling the processing order of print requests in the queue; and executable code stored in a memory, wherein execution of the code by a processor causes the processor to process the print requests stored in the queue in response to user interaction with the control interface."* column 2, lines 13-22). See also (*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for providing a user with an interactive menu to view, control, and manipulate print requests stored in the memory queue, at step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons 330 or menu bar 322 or other interactive features displayed on touch screen 320 to view and control the printing order of the documents associated with the print requests queued in the memory queue of printer 130."* column 9, lines 25-33), {Note: It is well known in the art that if a user manipulates the touch screen of a printing device, it temporarily stops the processing of the printing data}; cancels the temporary stop condition if the editing is completed when a printing order for the printing data arrives so as to perform the printing processing of the printing data after the editing of the printing data (*"In one embodiment, a printing system for processing one or more print requests includes: a print queue for storing data associated with one or more print requests, a display screen for displaying the content of the print queue; control interface for controlling the processing order of print requests*

in the queue; and executable code stored in a memory, wherein execution of the code by a

processor causes the processor to process the print requests stored in the queue in response to

user interaction with the control interface." column 2, lines 13-22). See also (*"Referring to*

FIG. 3, printing device 130 includes a display with a touch screen 320 for providing a user with

an interactive menu to view, control, and manipulate print requests stored in the memory queue,

at step 415. As shown in FIG. 3, a user may interact with printing device 130's control buttons

330 or menu bar 322 or other interactive features displayed on touch screen 320 to view and

control the printing order of the documents associated with the print requests queued in the

memory queue of printer 130." column 9, lines 25-33); and cancels the temporary stop condition

at a predetermined timing after the end of the editing if the editing is not completed when the

printing order of the printing data arrives so as to perform the printing processing of the printing

data after the editing of the printing data (*"In one embodiment, a printing system for processing*

one or more print requests includes: a print queue for storing data associated with one or more

print requests, a display screen for displaying the content of the print queue; control interface

for controlling the processing order of print requests in the queue; and executable code stored in

a memory, wherein execution of the code by a processor causes the processor to process the

print requests stored in the queue in response to user interaction with the control interface."

column 2, lines 13-22). See also (*"Referring to FIG. 3, printing device 130 includes a display*

with a touch screen 320 for providing a user with an interactive menu to view, control, and

manipulate print requests stored in the memory queue, at step 415. As shown in FIG. 3, a user

may interact with printing device 130's control buttons 330 or menu bar 322 or other interactive

features displayed on touch screen 320 to view and control the printing order of the documents

associated with the print requests queued in the memory queue of printer 130." column 9, lines

25-33).Furthermore see (*"Referring to FIG. 3, printing device 130 includes a display with a*

touch screen 320 for providing a user with an interactive menu to view, control, and manipulate

print requests stored in the memory queue, at step 415. As shown in FIG. 3, a user may interact

with printing device 130's control buttons 330 or menu bar 322 or other interactive features

displayed on touch screen 320 to view and control the printing order of the documents

associated with the print requests queued in the memory queue of printer 130." column 9, lines

25-33). It is understood that a predetermined condition is more that one print job. Thus, the

"printing order" is *"manipulated"* accordingly.

Claim Rejections - 35 USC § 103

5.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

6.   **Claims 11-14, 25-28 and 35** are rejected under 35 U.S.C. 103(a) as being unpatentable

over Bruce '064 in combination with Yellepeddy et al. (US 6,288,790 hereinafter, Yellepeddy

'790).

        Regarding claim 11; Bruce '064 discloses an image forming device comprising (*"The*

present invention relates generally to printing methods and systems and, more particularly, to

printing services in a communications network." column 1, lines 7-10): discloses a memory that

stores printing data (*"Printing device 130 queues the submitted print requests in memory,*

processes data associated with the requests, and prints out the data in certain order." column 4, lines 34-36); a controller that: (1) enables editing of the printing data previously stored in the memory of the image forming device (*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for providing a user with an interactive menu to view, control, and manipulate print requests stored in the memory queue, at step 415."* column 9, lines 25-28); and performs data processing for providing image data from the printing data stored in the memory (*"Printing device 130 queues the submitted print requests in memory, processes data associated with the requests, and prints out the data in certain order."* column 4, lines 34-36); and a printing mechanism that provides printed output of the image data output by the controller (*"For example, in one embodiment, the scroll bar 328 is provided to allow a user to scroll through one or more sections of the file associated with the print request. At step 470, the user may interact with menu bar 322 or other interactive features displayed on touch screen 320, for example, GUI buttons 340 and 348 to print one or more pages of the selected print request as displayed on display area 324. User interaction with control buttons 330 or GUI buttons provided on touch screen 320 may allow a user to control the operation of printing device 130 in other manners"* column 10, lines 4-13).

Bruce '064 does not expressly disclose wherein the controller enables editing of the printing data when an information processor which has transmitted the printing data is identical to an information processor which requests the editing of the printing data.

Yellepeddy '790 discloses wherein the controller enables editing of the printing data when an information processor which has transmitted the printing data is identical to an information processor which requests the editing of the printing data (*"The user may also change*

the state of a print job within the transient printer queue to the held state to suspend or bypass

replay for that print job, or may release a held print job to place it in the waiting state. The user

may additionally edit the contents of a print job while it is in the transient printer queue (ASCII

files only), copy a print job within the transient printer queue to make a duplicate job, or invoke

a settings notebook for a selected print job, allowing the user to modify its characteristics."
column 7, lines 5-13).

Bruce '064 and Yellepeddy '790 are combinable because they are from same field of

endeavor of network printer systems (*"The present invention relates in general to print support*

for data processing systems and in particular to print support for mobile data processing systems

or systems otherwise disconnected from a print server. Still more particularly, the present

invention relates to a mobile print system employing transient queues to transparently support

printing by data processing systems currently disconnected from a selected print server."
Yellepeddy '790 at column 1, lines 5-12).

At the time of the invention, it would have been obvious to a person of ordinary skill in

the art to modify the printer system as taught by Bruce '064 by adding wherein the controller

enables editing of the printing data when an information processor which has transmitted the

printing data is identical to an information processor which requests the editing of the printing

data as taught by Yellepeddy '790.

The motivation for doing so would have been because it is advantageous to provide an

improved method and apparatus for print support for data processing systems (*"It is therefore*

one object of the present invention to provide an improved method and apparatus for print

support for data processing systems." Yellepeddy '790 at column 1, lines 65-67).

Therefore, it would have been obvious to combine Bruce '064 with Yellepeddy '790 to obtain the invention as specified in claim 1.

Regarding claim 12; Yellepeddy '790 discloses wherein the controller enables editing of the printing data when an information processor which has transmitted the printing data is identical to an information processor which requests the editing of the printing data (*"The user may also change the state of a print job within the transient printer queue to the held state to suspend or bypass replay for that print job, or may release a held print job to place it in the waiting state. The user may additionally edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a print job within the transient printer queue to make a duplicate job, or invoke a settings notebook for a selected print job, allowing the user to modify its characteristics."* column 7, lines 5-13).

Regarding claim 13; Yellepeddy '790 discloses wherein the controller enables the editing of the printing data when user information added to the printing data is identical to user information input by a user who requests editing (*"The user may also change the state of a print job within the transient printer queue to the held state to suspend or bypass replay for that print job, or may release a held print job to place it in the waiting state. The user may additionally edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a print job within the transient printer queue to make a duplicate job, or invoke a settings notebook for a selected print job, allowing the user to modify its characteristics."* column 7, lines 5-13).

Regarding claim 14; Yellepeddy '790 discloses wherein the controller enables the editing of the printing data when user information added to the printing data is identical to user information input by a user who requests editing (*"The user may also change the state of a print job within the transient printer queue to the held state to suspend or bypass replay for that print job, or may release a held print job to place it in the waiting state. The user may additionally edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a print job within the transient printer queue to make a duplicate job, or invoke a settings notebook for a selected print job, allowing the user to modify its characteristics."* column 7, lines 5-13).

Regarding claim 25; Bruce '064 discloses an image forming device comprising: a storage means for storing printing data (*"Printing device 130 queues the submitted print requests in memory, processes data associated with the requests, and prints out the data in certain order."* column 4, lines 34-36); editing means for enabling editing of the printing data previously stored in the storage means of the image forming device (*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320 for providing a user with an interactive menu to view, control, and manipulate print requests stored in the memory queue, at step 415."* column 9, lines 25-28); data processing means for performing data processing to provide image data from the printing data stored in the storage means (*"Printing device 130 queues the submitted print requests in memory, processes data associated with the requests, and prints out the data in certain order."* column 4, lines 34-36); and printing means for providing

printed output of the image data output by the data processing means (*"For example, in one embodiment, the scroll bar 328 is provided to allow a user to scroll through one or more sections of the file associated with the print request. At step 470, the user may interact with menu bar 322 or other interactive features displayed on touch screen 320, for example, GUI buttons 340 and 348 to print one or more pages of the selected print request as displayed on display area 324. User interaction with control buttons 330 or GUI buttons provided on touch screen 320 may allow a user to control the operation of printing device 130 in other manners"* column 10, lines 4-13).

Bruce '064 does not expressly disclose wherein the editing means enables editing of the printing data when an information processor which has transmitted the printing data is identical to an information processor which requests the editing of the printing data.

Yellepeddy '790 discloses wherein the editing means enables editing of the printing data when an information processor which has transmitted the printing data is identical to an information processor which requests the editing of the printing data (*"The user may also change the state of a print job within the transient printer queue to the held state to suspend or bypass replay for that print job, or may release a held print job to place it in the waiting state. The user may additionally edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a print job within the transient printer queue to make a duplicate job, or invoke a settings notebook for a selected print job, allowing the user to modify its characteristics."* column 7, lines 5-13).

Bruce '064 and Yellepeddy '790 are combinable because they are from same field of endeavor of network printer systems (*"The present invention relates in general to print support*

for data processing systems and in particular to print support for mobile data processing systems

or systems otherwise disconnected from a print server. Still more particularly, the present

invention relates to a mobile print system employing transient queues to transparently support

printing by data processing systems currently disconnected from a selected print server."
Yellepeddy '790 at column 1, lines 5-12).

At the time of the invention, it would have been obvious to a person of ordinary skill in

the art to modify the printer system as taught by Bruce '064 by adding wherein the editing means

enables editing of the printing data when an information processor which has transmitted the

printing data is identical to an information processor which requests the editing of the printing

data as taught by Yellepeddy '790.

The motivation for doing so would have been because it is advantageous to provide an

improved method and apparatus for print support for data processing systems (*"It is therefore*

one object of the present invention to provide an improved method and apparatus for print

support for data processing systems." Yellepeddy '790 at column 1, lines 65-67).

Therefore, it would have been obvious to combine Bruce '064 with Yellepeddy '790 to

obtain the invention as specified in claim 15.

Regarding claim 26; Yellepeddy '790 discloses wherein the editing means enables

editing of the printing data when an information processor which has transmitted the printing

data is identical to an information processor which requests the editing of the printing data (*"The*

user may also change the state of a print job within the transient printer queue to the held state

to suspend or bypass replay for that print job, or may release a held print job to place it in the

waiting state. The user may additionally edit the contents of a print job while it is in the transient

printer queue (ASCII files only), copy a print job within the transient printer queue to make a

duplicate job, or invoke a settings notebook for a selected print job, allowing the user to modify

its characteristics." column 7, lines 5-13).

      Regarding claim 27; Yellepeddy '790 discloses wherein the editing means enables the

editing of the printing data when user information added to the printing data is identical to user

information input by a user who requests editing (*"The user may also change the state of a print*

job within the transient printer queue to the held state to suspend or bypass replay for that print

job, or may release a held print job to place it in the waiting state. The user may additionally

edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a

print job within the transient printer queue to make a duplicate job, or invoke a settings

notebook for a selected print job, allowing the user to modify its characteristics." column 7,

lines 5-13).

      Regarding claim 28; Yellepeddy '790 discloses wherein the editing means enables the

editing of the printing data when user information added to the printing data is identical to user

information input by a user who requests editing (*"The user may also change the state of a print*

job within the transient printer queue to the held state to suspend or bypass replay for that print

job, or may release a held print job to place it in the waiting state. The user may additionally

edit the contents of a print job while it is in the transient printer queue (ASCII files only), copy a

print job within the transient printer queue to make a duplicate job, or invoke a settings

notebook for a selected print job, allowing the user to modify its characteristics." column 7,

lines 5-13).

Regarding claim 35; Bruce '064 discloses an image forming method comprising the

steps of: storing, in an image forming device, printing data transmitted from an information

processor (*"Referring to FIG. 3, printing device 130 includes a display with a touch screen 320*

for providing a user with an interactive menu to view, control, and manipulate print requests

stored in the memory queue, at step 415." column 9, lines 25-28); allowing editing of the

printing data previously stored in the image forming device (*"In one embodiment, a printing*

system for processing one or more print requests includes: a print queue for storing data

associated with one or more print requests, a display screen for displaying the content of the

print queue; control interface for controlling the processing order of print requests in the queue;

and executable code stored in a memory, wherein execution of the code by a processor causes

the processor to process the print requests stored in the queue in response to user interaction

with the control interface." column 2, lines 13-22). See also (*"Referring to FIG. 3, printing*

device 130 includes a display with a touch screen 320 for providing a user with an interactive

menu to view, control, and manipulate print requests stored in the memory queue, at step 415. As

shown in FIG. 3, a user may interact with printing device 130's control buttons 330 or menu bar

322 or other interactive features displayed on touch screen 320 to view and control the printing

order of the documents associated with the print requests queued in the memory queue of printer

130." column 9, lines 25-33); and providing printed output of the edited printing data by the

image forming device after the editing is completed (*"For example, in one embodiment, the*

scroll bar 328 is provided to allow a user to scroll through one or more sections of the file

associated with the print request. At step 470, the user may interact with menu bar 322 or other

interactive features displayed on touch screen 320, for example, GUI buttons 340 and 348 to

print one or more pages of the selected print request as displayed on display area 324. User

interaction with control buttons 330 or GUI buttons provided on touch screen 320 may allow a

user to control the operation of printing device 130 in other manners" column 10, lines 4-13).

Bruce '064 does not expressly disclose wherein the editing of the printing data is allowed

when an information processor which transmitted the printing data is identical to an information

processor which requests the editing.

Yellepeddy '790 discloses wherein the editing of the printing data is allowed when an

information processor which transmitted the printing data is identical to an information processor

which requests the editing (*"The user may also change the state of a print job within the*

transient printer queue to the held state to suspend or bypass replay for that print job, or may

release a held print job to place it in the waiting state. The user may additionally edit the

contents of a print job while it is in the transient printer queue (ASCII files only), copy a print

job within the transient printer queue to make a duplicate job, or invoke a settings notebook for a

selected print job, allowing the user to modify its characteristics." column 7, lines 5-13).

Bruce '064 and Yellepeddy '790 are combinable because they are from same field of

endeavor of network printer systems (*"The present invention relates in general to print support*

for data processing systems and in particular to print support for mobile data processing systems

or systems otherwise disconnected from a print server. Still more particularly, the present

invention relates to a mobile print system employing transient queues to transparently support

printing by data processing systems currently disconnected from a selected print server." Yellepeddy '790 at column 1, lines 5-12).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer system as taught by Bruce '064 by adding wherein the editing of the printing data is allowed when an information processor which transmitted the printing data is identical to an information processor which requests the editing as taught by Yellepeddy '790.

The motivation for doing so would have been because it is advantageous to provide an improved method and apparatus for print support for data processing systems (*"It is therefore one object of the present invention to provide an improved method and apparatus for print support for data processing systems."* Yellepeddy '790 at column 1, lines 65-67).

Therefore, it would have been obvious to combine Bruce '064 with Yellepeddy '790 to obtain the invention as specified in claim 29.

Conclusion

7.   **THIS ACTION IS MADE FINAL.**   Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marcus T. Riley whose telephone number is 571-270-1581. The

examiner can normally be reached on Monday - Friday, 7:30-5:00, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Twyler Lamb can be reached on 571-272-7406. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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